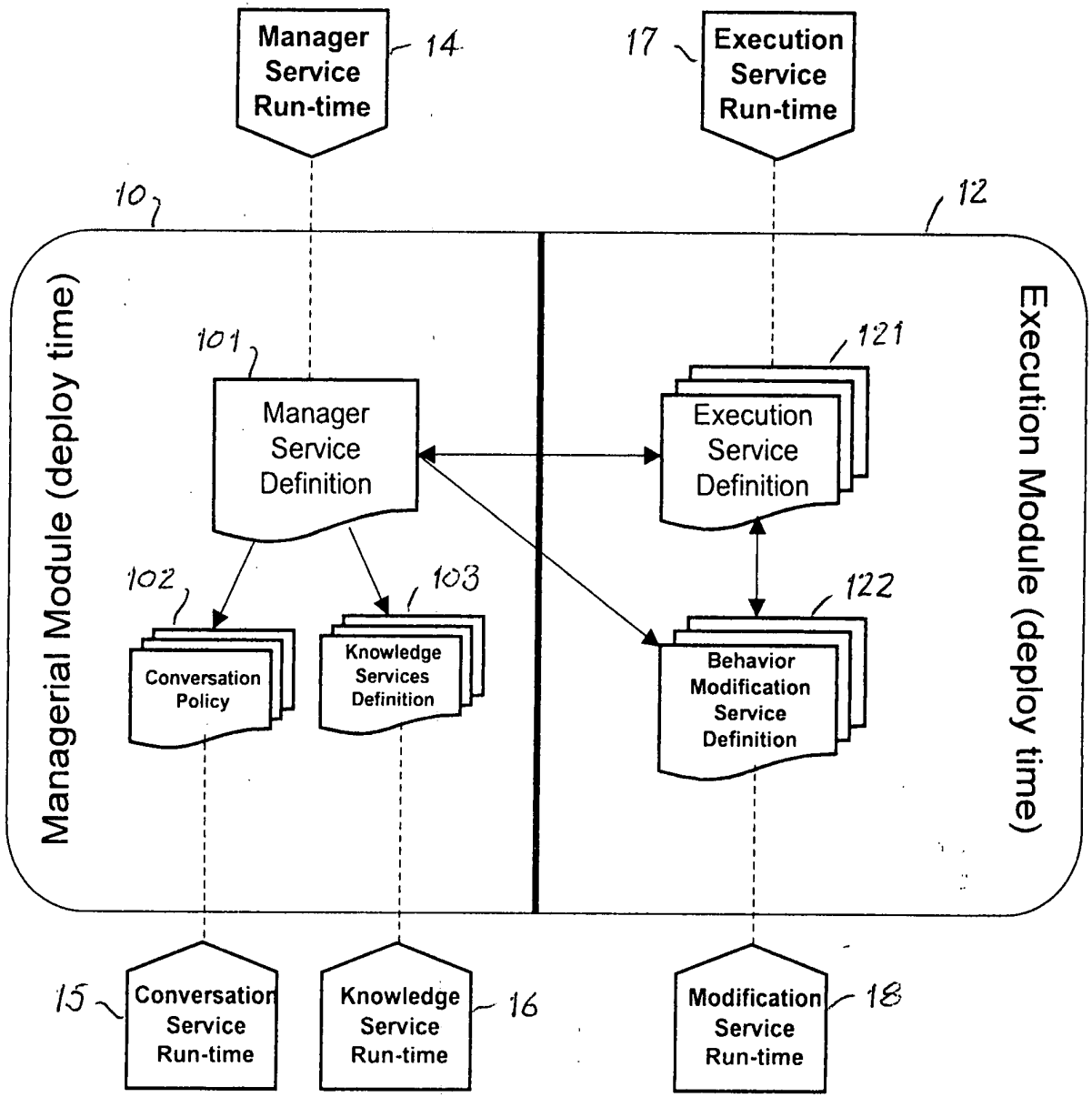
Manager Service Run-time
14
17
Execution Service Run-time
10
12
Managerial Module (deploy time)
Execution Module (deploy time)
101
Manager Service Definition
121
Execution Service Definition
102
103
122
Conversation Policy
Knowledge Services Definition
Behavior Modification Service Definition
15
Conversation Service Run-time
Knowledge Service Run-time
16
Modification Service Run-time
18

FIG. 1

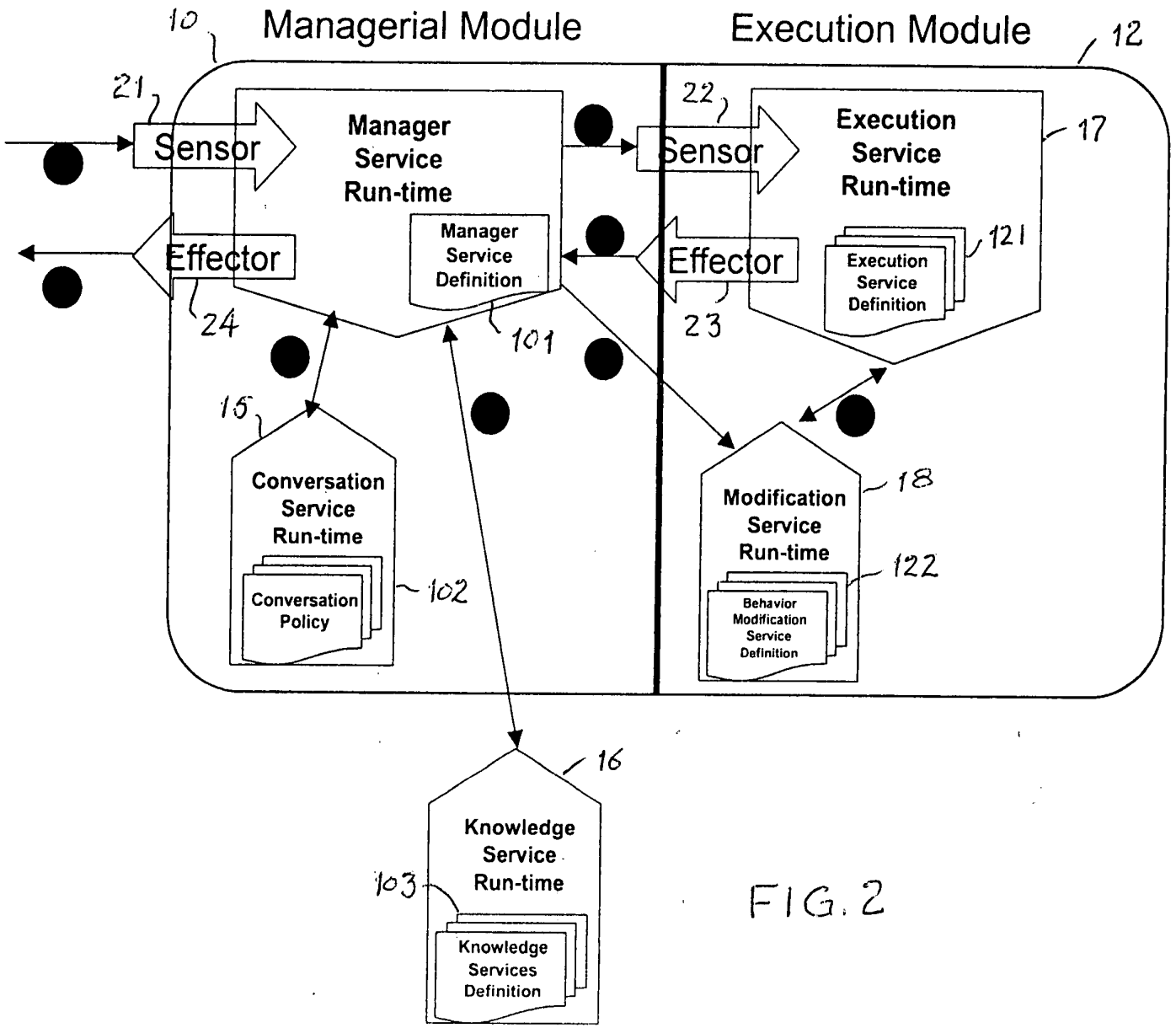
10
Managerial Module
Execution Module
12
21
Sensor
Manager
Service
Run-time
Manager
Service
Definition
Effector
24
101
22
Sensor
Execution
Service
Run-time
17
121
Execution
Service
Definition
Effector
23
15
Conversation
Service
Run-time
Conversation
Policy
102
Modification
Service
Run-time
18
122
Behavior
Modification
Service
Definition
16
Knowledge
Service
Run-time
103
Knowledge
Services
Definition

FIG. 2

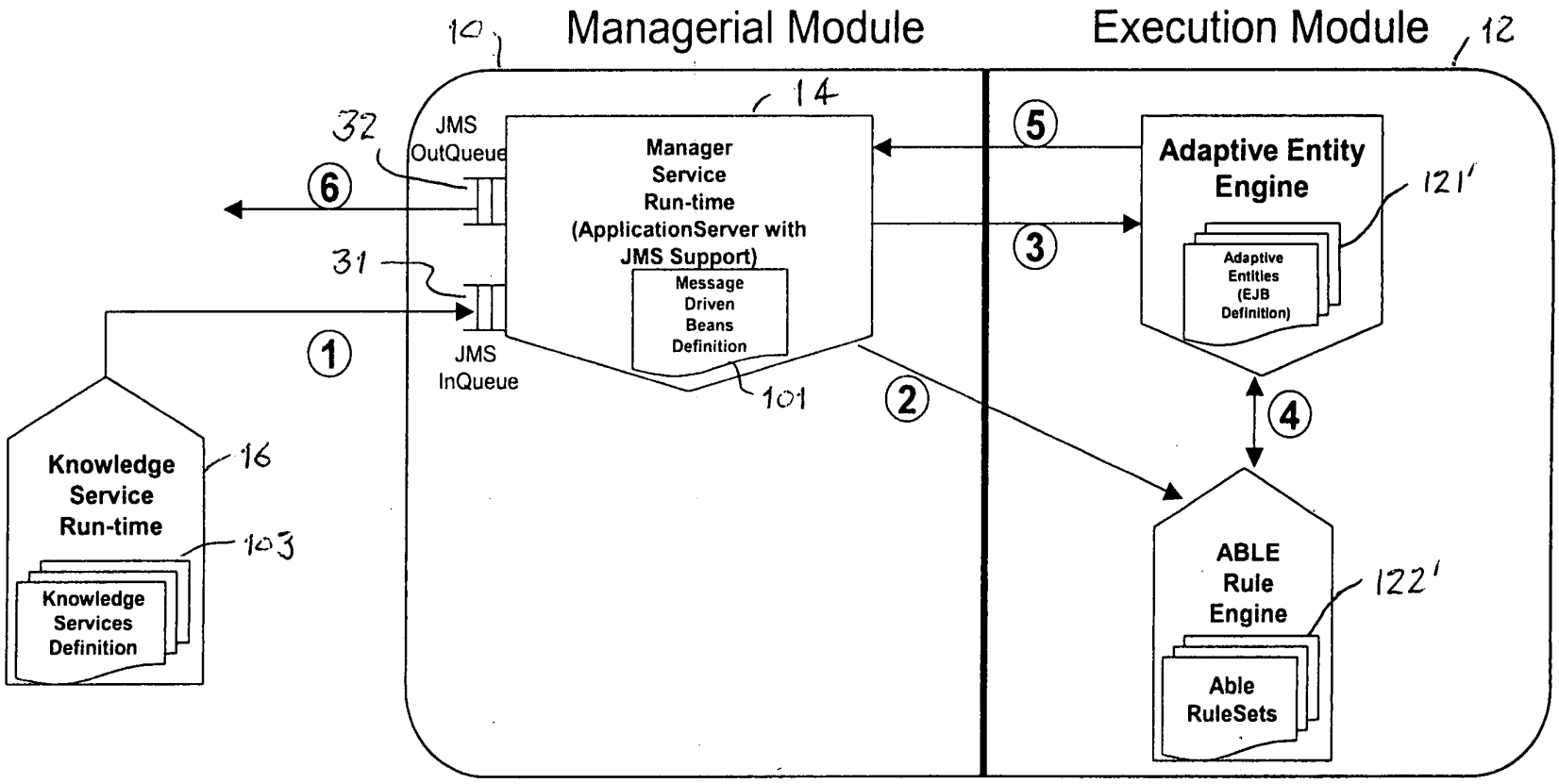
10
Managerial Module
Execution Module
12
14
32
JMS
OutQueue
6
31
1
JMS
InQueue
Manager
Service
Run-time
(ApplicationServer with
JMS Support)
Message
Driven
Beans
Definition
101
5
3
2
Adaptive Entity
Engine
121'
Adaptive
Entities
(EJB
Definition)
4
Knowledge
Service
Run-time
16
103
Knowledge
Services
Definition
ABLE
Rule
Engine
122'
Able
RuleSets

FIG. 3

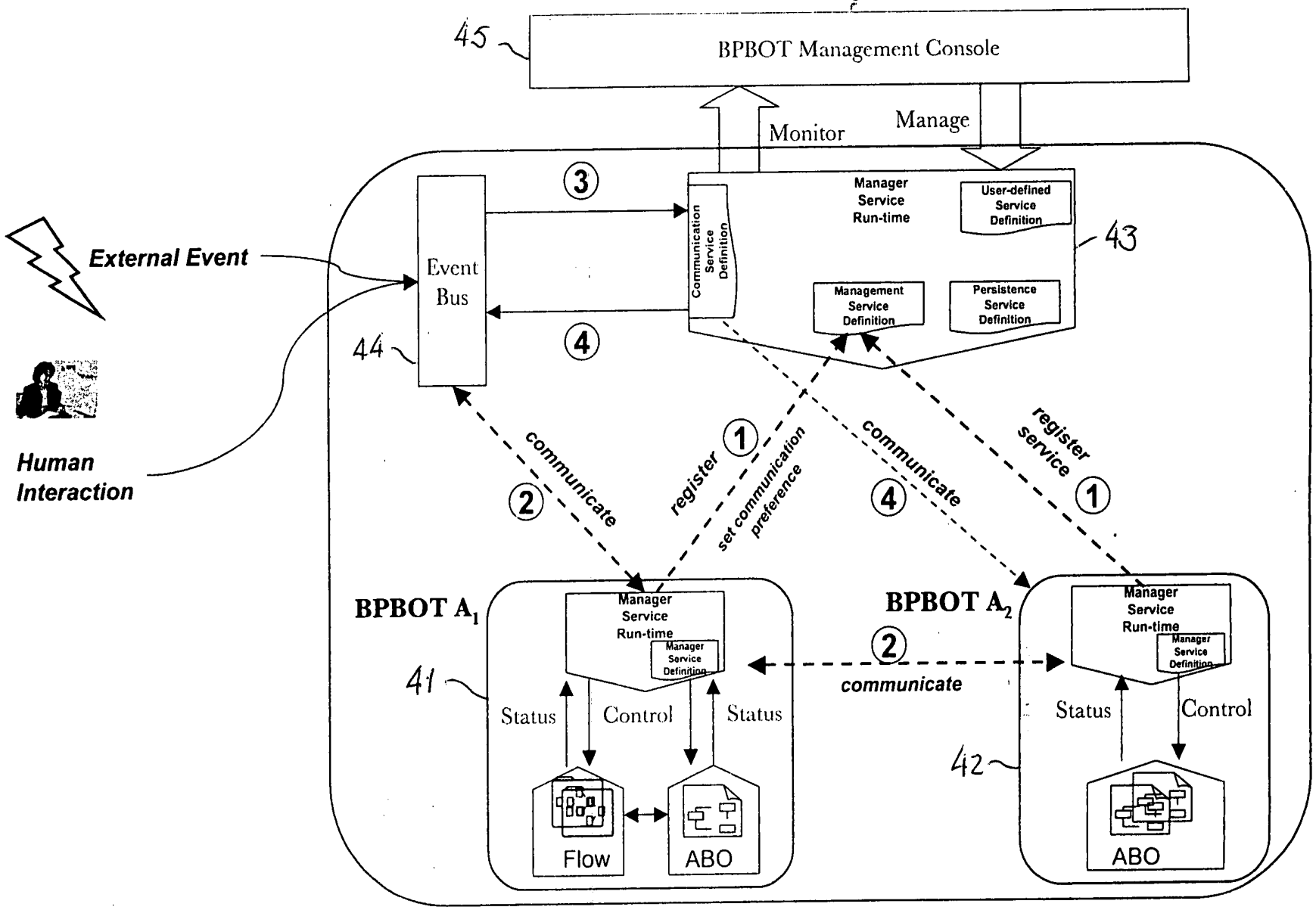
45
BPBOT Management Console
Monitor
Manage
External Event
Human Interaction
Event Bus
44
3
4
Communication Service Definition
Manager Service Run-time
User-defined Service Definition
Management Service Definition
Persistence Service Definition
43
register service
1
communicate
2
register
set communication preference
communicate
4
BPBOT A1
BPBOT A2
Manager Service Run-time
Manager Service Definition
41
Status
Control
Status
Flow
ABO
2
communicate
42
Status
Control
ABO

FIG. 4

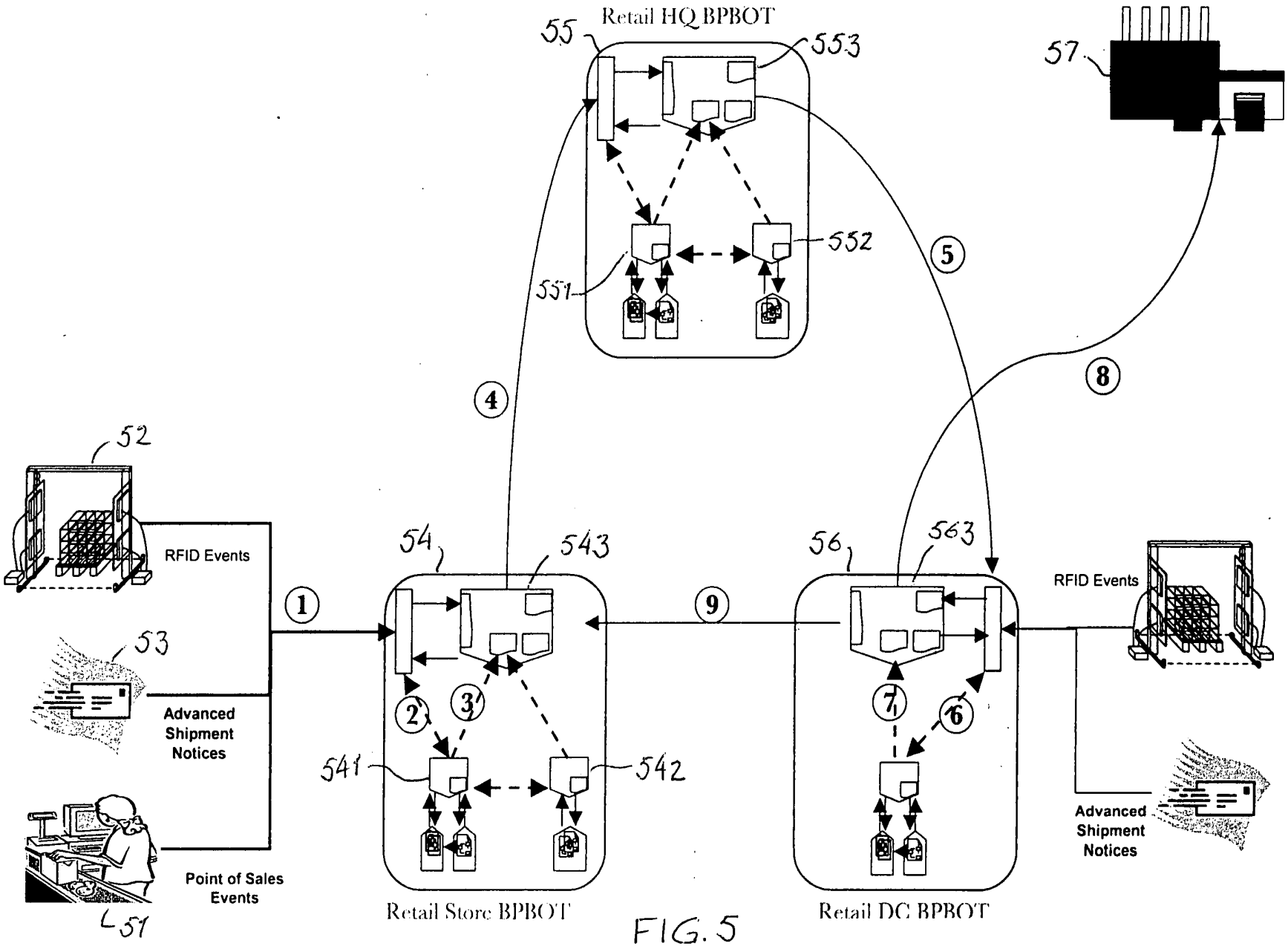
Retail HQ BPBOT
55
553
552
551
57
4
5
8
52
RFID Events
53
Advanced Shipment Notices
Point of Sales Events
51
1
54
543
541
542
2
3
Retail Store BPBOT
9
56
563
7
6
Retail DC BPBOT
RFID Events
Advanced Shipment Notices

FIG. 5

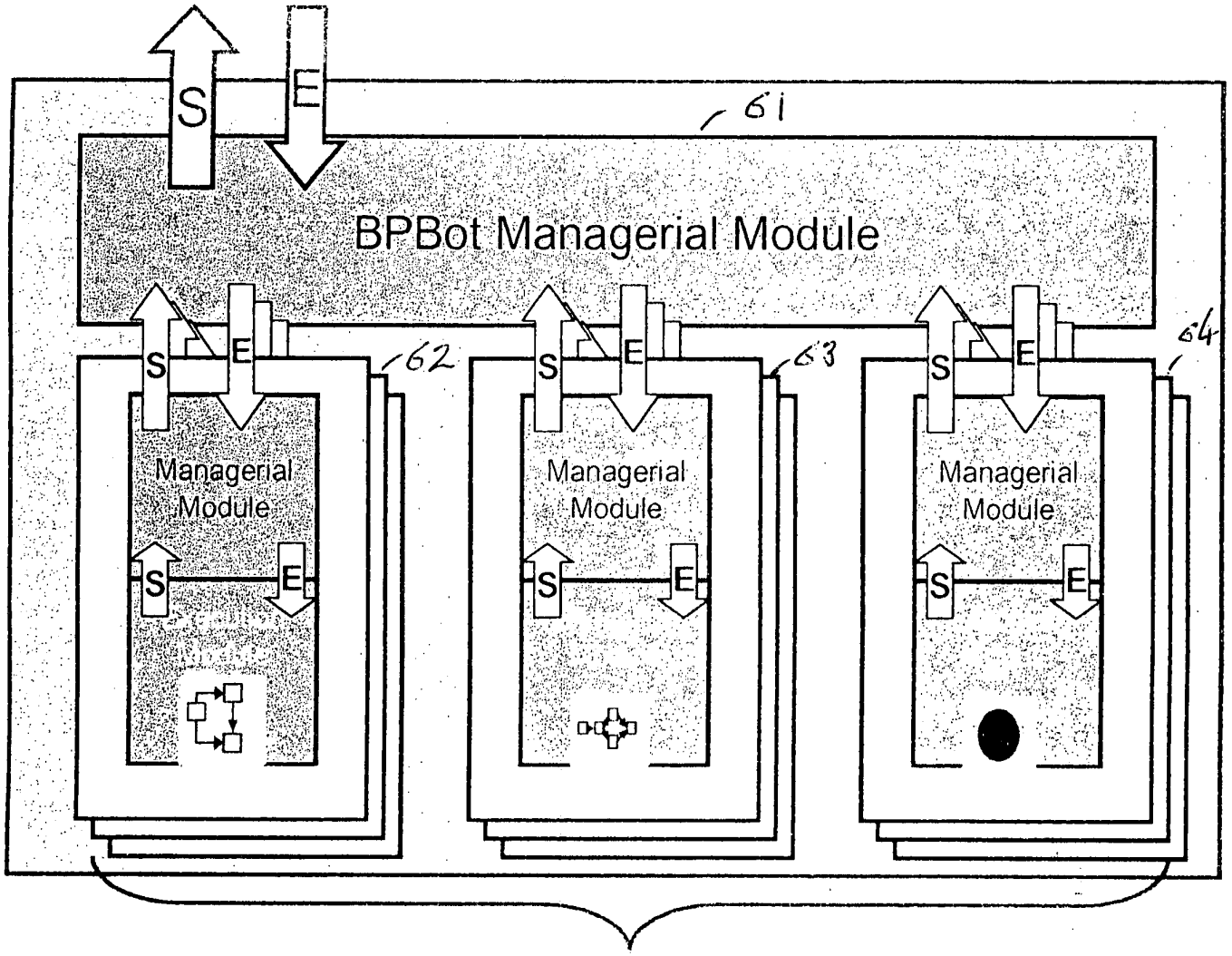
S
E
61
BPBot Managerial Module
S
E
62
Managerial Module
S
E
S
E
63
Managerial Module
S
E
S
E
64
Managerial Module
S
E
BPBot Execution Module

FIG. 6